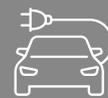
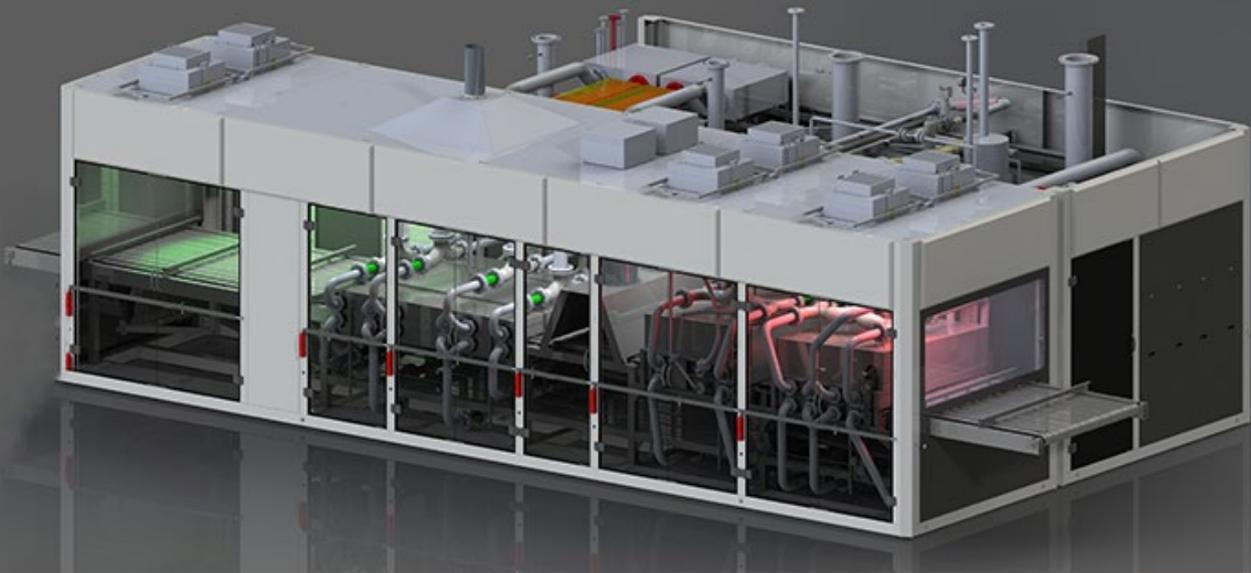


High-speed Cleaning for Sensitive Components with High Cleanliness Requirements

EcoCvolta



PLANT CONCEPT

Wherever sensitive components are manufactured in large quantities with high demands on component cleanliness, the EcoCvolta can be the right solution for cleaning. Thanks to the continuous flow principle, it can be perfectly integrated into so-called „high-volume production lines“. The system can be easily connected to clean or cleanroom systems to prevent unwanted back-contamination of components. The EcoCvolta is able to cover a wide range of cleaning tasks thanks to the selection of different process modules.

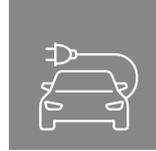
➤ CLEANING PERFORMANCE

- Up to a maximum particle size of 50-300 µm

➤ TACT TIME

- 0.5-10 seconds





Typical process and component geometry requirements:

- Component dimensions (max): 1,000 x 270 x 150 mm - other dimensions on request
- Material thickness: 0.050 to 20 mm - other material thicknesses on request
- Material: Material with and without coating; stainless steel or titanium
Further materials on request
- Contamination: Particles, punching oils, emulsion, burrs, flitter burrs, unknown filmic contamination
- Cycle times: 0.5 seconds up to 10 seconds / monopolar bipolar plate
- Particulate residual dirt requirements: maximum particle size 100µm up to a maximum of 300µm
- Filmic cleanliness requirement: from 38 up to 48mN/m, free of oils and-molecular oil components
- Free of certain unauthorised substances on the surface, such as phosphorus, cleaning agents, surfactants, sulphur, silicones, silicon, any organics.



Possible processes for cleaning bipolar plates:

- High-pressure spray cleaning
- Low-pressure spray cleaning
- Steam cleaning
- Hydrocleaning
- CO2 rays
- Laser cleaning
- Atmospheric low-energy plasma
- High-energy plasma processes
- Thermal oil removal in an inert gas atmosphere

Efficient and sustainable solutions for component cleaning and surface treatment

For the highest cleanliness requirements:

The SBS Ecoclean Group develops, produces and sells future-orientated equipment, systems and services for industrial parts cleaning and degreasing, ultrasonic ultra-fine cleaning, high-pressure water jet deburring and surface preparation and treatment. With our worldleading solutions, we support companies around the globe efficiently and sustainably high quality.



CONTACT

Ecoclean GmbH
Hans-Georg-Weiss-Str. 10
52156 Monschau/Germany

info.monschau@ecoclean-group.net

www.ecoclean-group.net

